



2834

IN THE UNITED STATES  
PATENT AND TRADEMARK OFFICE

Patent Application

Vasyl' V. Kozoriz

Case 1

Serial No. 09/654,964      Group Art Unit 2834

Filed              September 5, 2000

Examiner      Dang D. Le

Title              Super Conductive Bearing

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C., 20231

SIR:

Enclosed is an amendment in the above-identified application. [No additional fee is required, as shown below.]

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Washington, D.C. 20231.

**JAN 29 2003**

(Date of Deposit)

Dwight A. Marshall  
(Printed name of person mailing paper or fee)  
*Dwight A. Marshall*  
Signature of person mailing paper or fee

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CLAIMS AS AMENDED						
	Claims Remaining After Amendment		Highest No. Previously Paid For	Present Extra	Rate	Additional Fee
Total Claims for Fee Purposes	20	minus	36	0	x \$9.00	\$0
Independent Claims	4	minus	17	0	x \$42	\$0
Multiple Dependent Claim(s) first presented with this amendment, if applicable					+ \$140	\$0
TOTAL ADDITIONAL FEE FOR THIS AMENDMENT:						\$0

Respectfully,

*Dwight A. Marshall*  
Attorney for Applicant, Reg. No. 25896

**JAN 29 2003**  
Date: \_\_\_\_\_  
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**Patent Application**

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WASHINGTON, D.C., 20231**

**SIR:**

In response to the Office action of November 7, 2002, please amend the above identified application as follows:

**IN THE DRAWING**

Replace Figures 1 through 19 with the attached Figures 1 through 19.

**IN THE SPECIFICATION**

Amend the section entitled Detailed Description of the Invention as follows:

In a first exemplary embodiment of the invention, superconductive bearing apparatus 10, in accordance with the principles of the invention, is shown in Fig. 1 of the drawing. The bearing apparatus 10 set forth in Fig. 1 has two magnetic superconductive magnetic bearing structures rotatably supporting a rotor 200 in a free state within a stator 100. Each bearing structure consists of three closed stator loops 101 and one closed rotor loop 202 wherein the cross section of each loop is small compared to the area of the planar loop. The closed stator loops 101, although not limited thereto, may be planar superconductive short-circuited coils wound from thin niobium-titanium or niobium-tin wire or similar superconductive material and are angularly mounted at ends of the stator around the closed rotor loops 202. Each closed stator loop 101, although not limited thereto, is configured to have two non-equal circular arc sides 1010 joined at the ends thereof by radial segments 1011. Three closed stator loops 101 are mounted in a plane at each end of the stator and are positioned 120° apart around a closed rotor loop 202 to form one superconductive

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